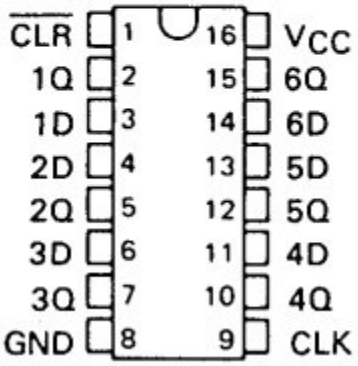
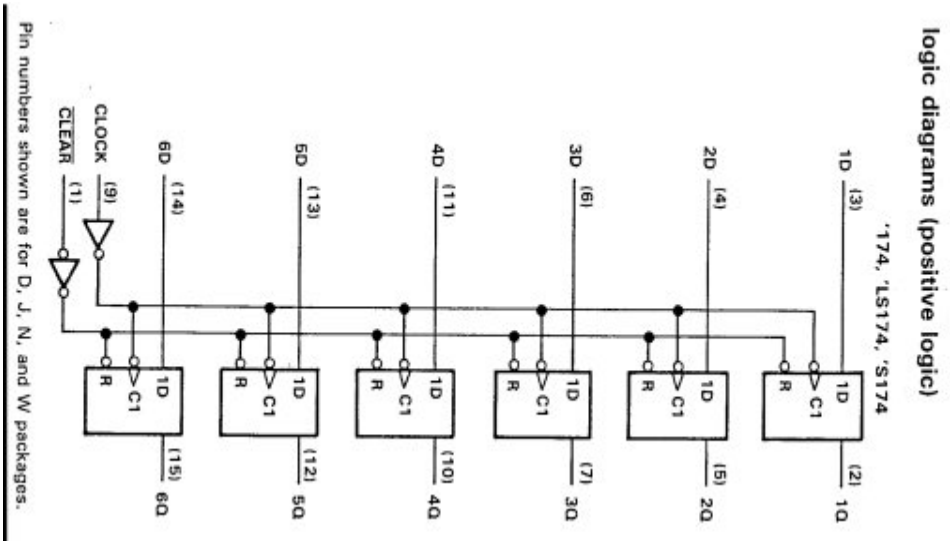
1. 74175 quad D flip flop ICs (total 3 used)

#SN74175N

SN54174, SN54LS174, SN54S174 . . . J OR W PACKAGE
SN74174 . . . N PACKAGE
SN74LS174, SN74S174 . . . D OR N PACKAGE
(TOP VIEW)

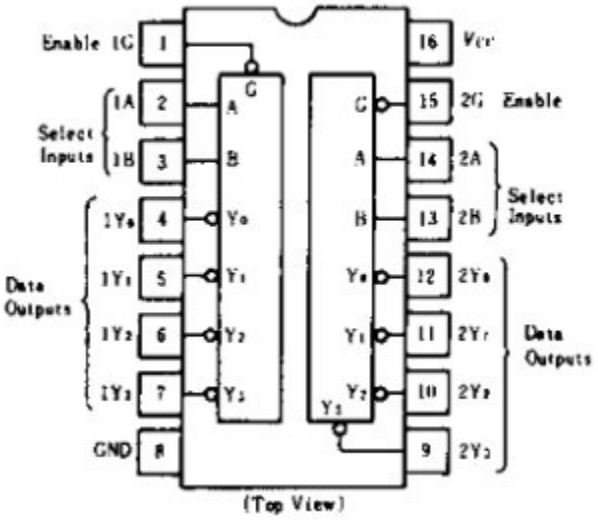


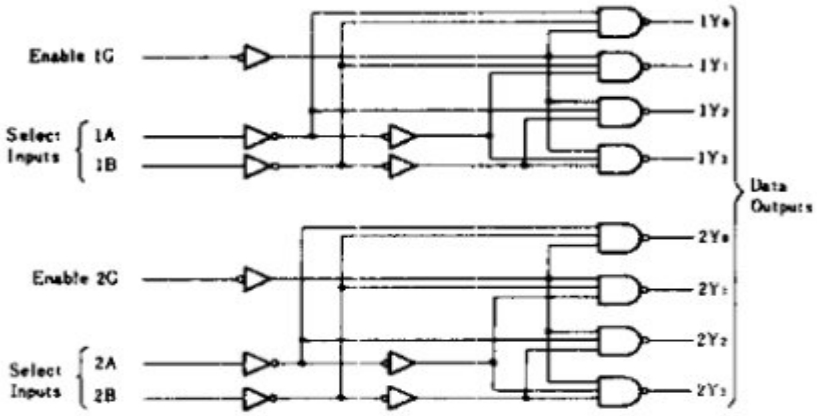


2. 74139 1*4 DeMux/Decoder IC (1 used)

#74139

■PIN ARRANGEMENT





■FUNCTION TABLE

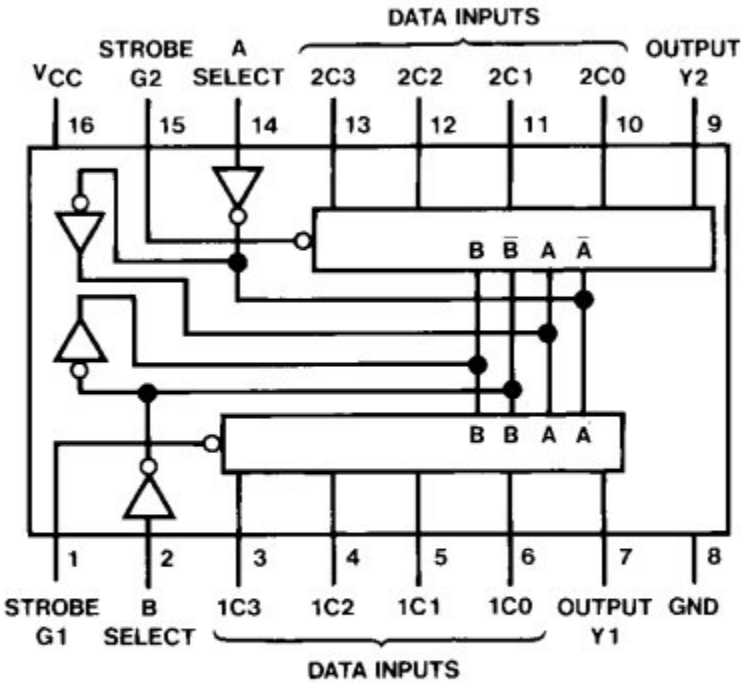
Inputs			Outputs			
Enable	Select					
G	B	A	Y_0	Y_1	Y_2	Y_3
H	×	×	H	H	H	H
L	L	L	L	H	H	H
L	L	H	H	L	H	H
L	H	L	H	H	L	H
L	H	H	H	H	H	L

H; high level, L; low level, X; irrelevant

3. 74153 4*1 Mux IC (total 4 used)

Connection Diagram

Dual-In-Line Package

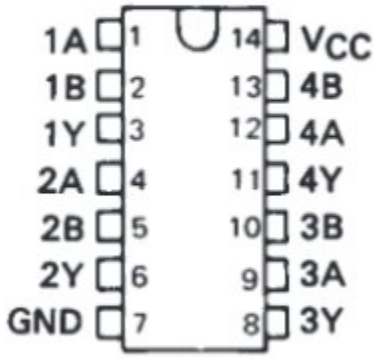


TL/F/6547–1

Order Number 54153DMQB, 54153FMQB, DM54153J, DM54153W or DM74153N
See NS Package Number J16A, N16E or W16A

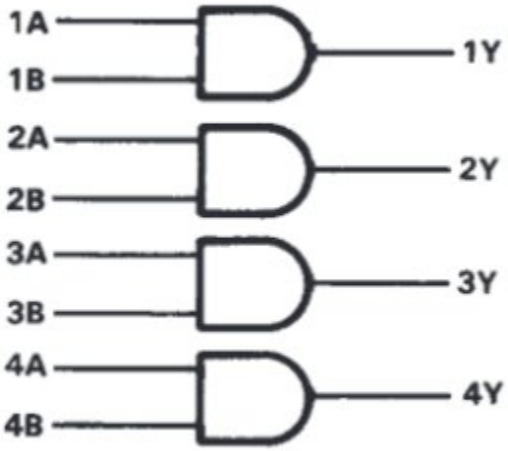
4. 7408 quad AND gate (1 used)

SN5408, SN54LS08, SN54S08 . . . J OR W PACKAGE
SN7408 . . . J OR N PACKAGE
SN74LS08, SN74S08 . . . D, J OR N PACKAGE
(TOP VIEW)



SN54LS08, SN54S08 . . . FK PACKAGE
(TOP VIEW)

logic diagram (positive logic)



$Y = A \cdot B$ or $Y = \overline{\overline{A} + \overline{B}}$

5. Push button pulse generator

6. Jumpers and hook-up wires.

7. Toggle Switches (total 6 used)

8. LEDs (total 4 used)

9. Breadboards (3 used)